

di-Potassium hydrogen phosphate anhydrous

Meets USP 41 - NF 36, EP 9.0 and BP 2016 testing specifications

Product Code: TC596M

Product Description :

Molecular weight: 174.18

Molecular formula: K_2HPO_4

CAS No.: 7758-11-4

Quality Control:

Appearance (EP, BP)

White or almost white powder or colourless crystals, very hygroscopic

Solubility (EP, BP)

Very soluble in water, very slightly soluble in ethanol (96%)

pH (c = 10% in water at 25°C) (USP)

8.50 - 9.60

Identification A (USP)

Reactions for potassium

Identification A (EP, BP)

10% in water is slightly alkaline

Identification B (USP)

Reactions for phosphate

Identification B (EP, BP)

Reactions for phosphate

Identification C (EP, BP)

Reactions for potassium

Appearance of solution (EP, BP)

Solution is clear and colourless.

Insoluble substances (USP)

$\leq 0.2\%$

Arsenic (USP)

$\leq 0.0003\%$

Arsenic (EP, BP)

$\leq 0.0002\%$

Chloride (USP)

$\leq 0.03\%$

Chloride (EP, BP)

$\leq 0.02\%$

Heavy metals (USP, BP)

$\leq 0.001\%$

Iron (USP)

$\leq 0.003\%$

Iron (EP, BP)

$\leq 0.001\%$

Sulphate (USP, EP, BP)

$\leq 0.1\%$

Fluoride (USP)

$\leq 0.001\%$

Reducing substances (EP, BP)

The solution remains faintly pink

Carbonate (USP)

A few bubbles are evolved

Limit of Monobasic or Tribasic salt (USP)

A blue colour is produced which is changed to yellow (with a greenish tinge) by the addition of ≤ 0.4 mL of 1 N hydrochloric acid

Monopotassium phosphate (EP, BP)

$\leq 2.5\%$

Sodium (USP)

A platinum wire imparts no pronounced yellow colour to a nonluminous flame

Sodium (EP, BP)

$\leq 0.1\%$

Bacterial endotoxins (EP, BP)

≤ 1.1 IU/mg

Loss on drying (at 105°, 2hr) (USP)

$\leq 1.0\%$

Loss on drying (at 125 - 130°C) (EP, BP)

<= 2.0%

Assay (NaOH T, on dry basis) (USP)

98.00 - 100.50%

Assay (NaOH T, on dry basis) (EP, BP)

98.00 - 101.00%

Storage and Shelf Life:

Store below 30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision: 01/2018

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